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UNITED STATES HET ARTMENT OF COMMERCE United States Raten and Trademark Office Address: COMMISSIONER/FOR PATENTS P. Of Boy 1450 Alekandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,209	07/18/2003	Yaron Elboim	ITL.0973US (P16173)	2849	
7590 09/12/2005			EXAMINER		
Timothy N. Trop			DALEY, CHRISTO	DALEY, CHRISTOPHER ANTHONY	
TROP, PRUNER & HU, P.C. STE 100			ART UNIT	PAPER NUMBER	
8554 KATY FWY HOUSTON, TX 77024-1841			2111		
			DATE MAILED: 09/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	10/623,209	ELBOIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christopher A. Daley	2111				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  rill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONED	I. ely filed the mailing date of this communication. C (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Ju	Responsive to communication(s) filed on 18 July 2005.					
, <u> </u>	This action is <b>FINAL</b> . 2b) This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-26 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 21 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:						

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### **DETAILED ACTION**

1. Claims 1 – 27 are pending.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Vila et al (US6654824) herein after Vila.
- 4. As to claims 1,7,13, and 21, Vila discloses a method, article, apparatus, and system comprising:

A processor-based device (Vila teaches in figure 14 of a system comprising a processor, deskew controller 62, that aligns signal timing that are derived from multi channel links)

A bridge to direct data receiver from processor-based device (Vila teaches of a controller as illustrated in figure 14, which inherently comprises a bridge mechanism to couple the plurality of deskew buffers (61a- 61d) to said processor, COL 10, lines 28 –

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41. Figure 3 also illustrates a bridge in the embodiment of a mux 33 that performs said function)

A storage coupled to the processor-based device storing instructions that if executed, enable the processor base device (Vila teaches of the deskew controller that inherently comprises a storage element that would facilitate the execution of deskewing steps of the (deskewing controller 62 of figure 14) as illustrated in figure 10) delivering first data from a first position in a first serial buffer having a receiving end to receive the first data and a delivering end opposite the receiving end;(Vila teaches in figure 6, first data in lane 0 that first serial buffer 54a of figure 5 and delivering said data to receiving end RCV 56a)

and delivering second data from a second position in a second serial buffer having a receiving end to receive the second data and a delivering end opposite the receiving end, (Vila teaches in figure 6 of delivering data from a second position, lane 1. The data is delivered on system illustrated in figure 5. Buffer 54b on serial transmission line 55b to receiving end, 56b. Vila further teaches of configuring the read and write pointers to indicate the location of the symbol or data being deskewed, which would comprise a second position, Col. 7, lines 18 – 40)

and the first position relative to the delivering end of the first serial buffer is different than the second position relative to the delivering end of the second serial buffer. (Vila teaches in figure 6 the difference in delivery time between lane0 and lane 1, with lane 1 data being one time cycle late in comparison to lane 0, thus illustrating the skew issue, COL. 6, lines 15 – 24).

As to claims 2 and 8, 14, and 23 Vila discloses the method, article, and apparatus, and system including delivering the first data from the first position in the first serial buffer having a number of elements that exceeds a maximum lane-to-lane skew. (Vila teaches of having a threshold for the data buffer that flags the condition when the maximum skew is exceeded, COL. 8, lines 1-7).

- 5. As to claims 3, 9, 15, and 24, Vila discloses the method, article, apparatus, and system including delivering the first data from the first position in the first serial buffer having eight elements. (Vila teaches in figure 3 of a lane comprising of eight elements, (0-7), COL. 4, lines 55 56).
- 6. As to claims 4 and 10, and 25 Vila discloses the method, article, and apparatus further including locating a first element in the first serial buffer and thereafter allowing X B\*E bits to proceed through the first serial buffer before delivering the first data, wherein B equals a number of bits capable of being stored in an element, and E equals a number of elements in the first serial buffer. (Vila teaches in figure 9 of having two pointers, R, and W. Vila teaches of writing into buffer element by the B\*E where buffer is in the embodiment of a FIFO. The READ pointer would be set and triggered at the appropriate time, COL. 7, lines 10 35).
- 7. As to claims 5 and 11, 17, and 26 Vila discloses the method, article, and apparatus, and system further including determining a location of a first element in the

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first serial buffer, basing the first position on the location of the first element in the first serial buffer, determining a location of a second element in the second serial buffer, and basing the second position on the location of the second element in the second serial buffer. (Vila teaches such assignment in COL. 4, lines 60 – 67, and figure 3).

- 8. As to claims 6 and 12, 19, and 27, Vila discloses the method, article, apparatus, and system further including locating a first element in the first serial buffer, and locating a second element in the second serial buffer, independently. (Vila teaches that the data stream may comprise of bits, which would make for independence of data origin, COL. 4, lines 55 56).
- 9. As to claims 20, and 21, Vila discloses the apparatus of claim 13, wherein the apparatus is an Ethernet controller and InfiniBand. (Vila teaches of supporting said communication system, COL. Lines 30 44).

## Response to Arguments

10. Applicant's arguments filed July 18, 2005 have been fully considered but they are not persuasive. With regards to the applicant's argument that reference Vila does not teach delivering data from a different position in different buffers in order to deskew, the examiner points to the teaching of Vila of supporting other embodiments, than the ones illustrated in figure 13. Vila teaches of configuring the read and write pointers to indicate the location of the symbol or data being deskewed, Col. 7, lines 18 – 40. In addition,

Vila teaches of embodiment, where the read pointer may be inhibited, or other storage elements may be used to perform the deskewing process, thus allowing the read pointer to be placed at a second position, Col. 10, lines 60 – 65. It would have been well known in the art at the time of the invention to exercise said design option to realize the invention.

### Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Daley whose telephone number is 571 272 3625. The examiner can normally be reached on 9 am. - 4p m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571 272 3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CAD 9/04/2005 PAUL R. MYERS PRIMARY EXAMINER

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